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Application No. 10/781,640  
Amendment dated November 27, 2006  
Reply to Office Action of June 26, 2006

Docket No.: 0837-0164P

**AMENDMENTS TO THE CLAIMS**

1. (Currently amended) A method ~~of comprising~~

creating metadata files for use in the personalization of media services in an information system including an information content database, in which parameters descriptive of the content of information services are arranged to be stored, and a user profile database, in which parameters descriptive of the users of information services are arranged to be stored, the method ~~said creating~~ comprising:

creating a rulebase including the reaction impulses of a test user group to information ~~services stimuli~~ presented as stimuli;

creating a database descriptive of an information content space and including theoretical alternatives for the parameters descriptive of the content of the information services;

creating a database descriptive of a user profile space and including theoretical alternatives for the parameters descriptive of the users of the information services;

creating a database descriptive of a reaction space and including theoretical alternatives for parameters descriptive of the reactions of the users of the information services, the database being created as an interaction of the database descriptive of the information content space and the database descriptive of the user profile space, the interaction being specified based on the reaction impulses defined in the rulebase;

comparing the actual parameters descriptive of the content and the users of the information services with the theoretical parameters; and

creating and storing metadata files as a result of said comparison for at least one user of an information service and for at least one content of an information service based on the reaction impulses defined in the rulebase,

said method further comprising

collecting, during use of the information services by the user, data on the reactions of the users of the information services to the information objects presented;

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updating the parameters of the information objects included in said user profile database based on the collected data; and

updating, based on the collected data, the rulebase linking together essential parameters of the user, information content and reaction.

2. (Currently amended) The A-method as claimed in of claim 1, wherein said rulebase is created by

presenting information objects, which belong to the information content space and whose content and presentation are varied, to a statistically significantly large test user group;

collecting data on the reactions of the test user group to said information objects; and

storing the reaction impulses of the test user group to the presented information objects in the rulebase by linking together the essential parameters of the user, the information content and the reaction.

3. (Currently amended) The A-method as claimed in of claim 2, wherein said ~~measurement~~ collected data specifying the reactions of the test user group includes at least some of the following:

- data measured by sensors on a user's heart rate, epidermal sweating, blood pressure and/or facial muscle tension;
- data determined by a camera on the user's eye movements;
- data based on questionnaires, interviews or observation of behaviour.

4. (Currently amended) The A-method as claimed in of claim 1, wherein said database descriptive of the information content space and the information content database include information objects that are parametrized by substantially the same parameters, which include at least some of the following: content substance, content modality, content format, conceptual structure of content.

5. (Currently amended) The A-method as claimed in of claim 1, wherein

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said database descriptive of the user profile space and the user profile database include information objects that are parametrized by substantially the same parameters, which include at least some of the following: implicit user profile, explicit user profile, information interest profile, use history profile, filtered profile.

6. (Canceled)

7. (Currently amended) ~~The A-method as claimed in~~ of claim 1, wherein a metadata file descriptive of an individual user is created by

comparing the parameters descriptive of said user with the parameters in the user profile space by placing corresponding parameters on top of each other; and

creating, as a result of said comparison, a correlation file that specifies ~~the user's generic~~ a user category the user belongs to.

8. (Currently amended) ~~A method as claimed in claim 1, wherein a metadata file descriptive of an individual information service is created by comprising~~

creating metadata files for use in personalization of media services in an information system including an information content database, in which parameters descriptive of the content of information services are arranged to be stored, and a user profile database, in which parameters descriptive of users of information services are arranged to be stored, said creating comprising:

creating a rulebase including reaction impulses of a test user group to information services presented as stimuli;

creating a database descriptive of an information content space and including theoretical alternatives for the parameters descriptive of the content of the information services;

creating a database descriptive of a user profile space and including theoretical alternatives for the parameters descriptive of the users of the information services;

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creating a database descriptive of a reaction space and including theoretical alternatives for parameters descriptive of reactions of the users of the information services, the database being created as an interaction of the database descriptive of the information content space and the database descriptive of the user profile space, the interaction being specified based on the reaction impulses defined in the rulebase;

comparing actual parameters descriptive of the content and the users of the information services with the theoretical parameters;

creating and storing metadata files as a result of said comparison for at least one user of an information service and for at least one content of an information service based on the reaction impulses defined in the rulebase,

creating an interpretation file from the information content database, the interpretation file including linking addresses to the different information objects in the information content database;

comparing said interpretation file with the parameters in the information content space by placing corresponding parameters on top of each other;

creating a correlation file as a result of said comparison; and

deriving, from said correlation file by means of the linking addresses included in the interpretation file, a metadata file descriptive of the information objects included in said an information service and the variation in their content of the information objects.

9. (Currently amended) ~~The A-method as claimed in of~~ claim 1, further comprising coding the information objects included in said information system as XML documents.

10. (Currently amended) ~~The A-method as claimed in of~~ claim 9, wherein said XML documents includes a style sheet, ~~such as an XSL style sheet for the appearance of an XML content document;~~ the style sheet including instructions for converting the data included in an XML content document into an HTML document.

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11. (Currently amended) A media service information system including:

an information content database, ~~in which storing parameters descriptive of the~~  
content of information services ~~of a media service information system are arranged to be stored;~~

a user profile database, ~~in which storing parameters descriptive of the users of~~  
information services are arranged to be stored;

a rulebase, in which ~~the reaction impulses of a test user group to information services~~  
presented as stimuli presented are arranged to be stored;

a database descriptive of an information content space and including theoretical  
alternatives for the parameters descriptive of the content of the information services;

a database descriptive of a user profile space and including theoretical alternatives for  
the parameters descriptive of the users of the information services;

a database descriptive of a reaction space and including theoretical alternatives for  
parameters descriptive of the reactions of the users of the information services, the database  
being created as an interaction of the database descriptive of the information content space and  
the database descriptive of the user profile space, the interaction being specified based on the  
reaction impulses defined in the rulebase;

~~the actual parameters descriptive of the content and the users of the information~~  
services being arranged to be compared with the theoretical parameters; and

metadata files being arranged to be created and stored as a result of said comparison  
for at least one user of an information service and for at least one content of an information  
service based on the reaction impulses defined in the rulebase;

data are arranged to be collected on reactions of the users of the information services  
to the information objects presented of the information services by the user;

the parameters of the information objects included in said user profile database are  
arranged to be updated based on the collected data; and

the rulebase linking essential parameters of the user, information content and reaction  
is arranged to be updated based on the collected data.

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12. (Currently amended) The An information system ~~as claimed in of~~ claim 11, wherein said rulebase is arranged to be created by

arranging information objects, which belong to the information content space and whose content and ways of presentation are varied, to be presented to a statistically significantly large test user group;

arranging data to be collected on the reactions of the test user group to said information objects; and

arranging the reaction impulses of the test user group to the presented information objects to be stored in the rulebase by linking together the essential parameters of the user, the information content and the reaction.

13. (Currently amended) The An information system ~~as claimed in of~~ claim 12, wherein

said ~~measurement data~~ to be collected specifying the reactions of the test user group includes at least some of the following:

- data measured by sensors on a user's heart rate, epidermal sweating, blood pressure and/or facial muscle tension;
- data determined by a camera on the user's eye movements;
- data based on questionnaires, interviews or observation of behaviour.

14. (Currently amended) The An information system ~~as claimed in of~~ claim 11, wherein

said database descriptive of the information content space and the information content database include information objects that are parametrized by substantially the same parameters, which include at least some of the following: content substance, content modality, content format, conceptual structure of content.

15. (Currently amended) The An information system ~~as claimed in of~~ claim 11, wherein

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said database descriptive of the user profile space and the user profile database include information objects that are parametrized by substantially the same parameters, which include at least some of the following: implicit user profile, explicit user profile, information interest profile, use history profile, filtered profile.

16. (Canceled)

17. (Currently amended) ~~The An~~ information system ~~as claimed in of~~ claim 11, wherein a metadata file descriptive of an individual user is arranged to be created by

the parameters descriptive of said user being arranged to be compared with the parameters in the user profile space by placing corresponding parameters on top of each other; and

as a result of said comparison, a correlation file that specifies ~~the user's generic user category~~ the user belongs to is arranged to be created.

18. (Currently amended) ~~An information system as claimed in claim 11, wherein a metadata file descriptive of an individual information service is arranged to be created by~~ comprising

an information content database storing parameters descriptive of a content of information services of a media service information system;

a user profile database storing parameters descriptive of users of information services are arranged to be stored;

a rulebase, in which reaction impulses of a test user group to information services presented as stimuli are arranged to be stored;

a database descriptive of an information content space and including theoretical alternatives for the parameters descriptive of the content of the information services;

a database descriptive of a user profile space and including theoretical alternatives for the parameters descriptive of the users of the information services;

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a database descriptive of a reaction space and including theoretical alternatives for parameters descriptive of the reactions of the users of the information services, the database being created as an interaction of the database descriptive of the information content space and the database descriptive of the user profile space, the interaction being specified based on the reaction impulse defined in the rulebase;

actual parameters descriptive of the content and the users of the information services being arranged to be compared with the theoretical parameters;

metadata files being arranged to be created and stored as a result of said comparison for at least one user of an information service and for at least one content of an information service based on the reaction impulse defined in the rulebase;

an interpretation file being arranged to be created from the information content database, the interpretation file including linking addresses to the different information objects in the information content database;

said interpretation file being arranged to be compared with the parameters in the information content space by placing corresponding parameters on top of each other;

a correlation file being arranged to be created as a result of said comparison; and

a metadata file descriptive of the information objects included in said information service and the variation in their content of the information objects being arranged to be derived from said correlation file by means of ~~the~~ linking addresses included in the interpretation file.

19. (Currently amended) The An-information system as claimed in of claim 11,  
wherein

the information objects included in said information system are arranged to be coded as XML documents.

20. (Currently amended) The An-information system as claimed in of claim 19,  
wherein



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said XML documents include a style sheet, ~~such as an XSL style sheet for the appearance of an XML content document,~~ the style sheet including instructions for converting the data included in an XML content document into an HTML document.

21. (New) A computer-readable medium having stored thereon executable elements which, when executed in one or more computing device, configure the processor or computer

create a rulebase including reaction impulses of a test user group to information services presented as stimuli in a media service information system;

create an information content database descriptive of an information content space and including theoretical alternatives for the parameters descriptive of the content of the information services;

create a user profile database descriptive of a user profile space and including theoretical alternatives for the parameters descriptive of the users of the information services;

create a database descriptive of a reaction space and including theoretical alternatives for parameters descriptive of reactions of the users of the information services, the database being created as an interaction of the database descriptive of the information content space and the database descriptive of the user profile space, the interaction being specified based on the reaction impulses defined in the rulebase;

compare actual parameters descriptive of the content and the users of the information services with the theoretical parameters;

create and store metadata files as a result of said comparison for at least one user of an information service and for at least one content of an information service based on the reaction impulses defined in the rulebase;

collect, during use of the information services by the users, data on the reactions of the users of the information services to the information objects presented;

update the parameters of the information objects included in said user profile database based on the collected data; and

update, based on the collected data, the rulebase linking together essential parameters of the user, information content and reaction.

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22. (New) A computer-readable medium having stored thereon executable elements which, when executed in one or more computing device, configure the processor or computer to create a rulebase including reaction impulses of a test user group to information services presented as stimuli in a media service information system;

create an information content database descriptive of an information content space and including theoretical alternatives for the parameters descriptive of the content of the information services;

create a user profile database descriptive of a user profile space and including theoretical alternatives for the parameters descriptive of the users of the information services;

create a database descriptive of a reaction space and including theoretical alternatives for parameters descriptive of reactions of the users of the information services, the database being created as an interaction of the database descriptive of the information content space and the database descriptive of the user profile space, the interaction being specified based on the reaction impulses defined in the rulebase;

compare actual parameters descriptive of the content and the users of the information services with the theoretical parameters;

create and store metadata files as a result of said comparison for at least one user of an information service and for at least one content of an information service based on the reaction impulses defined in the rulebase;

create an interpretation file from the information content database, the interpretation file including linking addresses to the different information objects in the information content database;

compare said interpretation file with the parameters in the information content space by placing corresponding parameters on top of each other;

create a correlation file as a result of said comparison; and

derive, from said correlation file by means of linking addresses included in the interpretation file, a metadata file descriptive of the information objects included in an information service and the variation in content of the information objects.